

Table 17. (a-c) Shear Modulus according to several test definitions for Type VI- 50 kips (222 kN)

Left Bearing Pad						
Shear Modulus Definition	Direction	stress (psi)	stress (MPa)	G (psi)	G (MPa)	G/G _(0/+50)
0/+ .50	One way	66.84	0.4610	133.68	0.9221	1
+/- .50 secant	Two way	66.84/-55.69	.4610/-0.3841	122.53	0.8451	0.917
+/- .25 tangent (top line)	Two way	60.91/-24.55	.4201/-0.1693	170.92	1.1789	1.279
+/- .25 tangent (bottom line)	Two way	-8.6/-41.26	.0593/-0.2846	65.32	0.4505	0.489

Right Bearing Pad						
Shear Modulus Definition	Direction	stress (psi)	stress (MPa)	G (psi)	G (MPa)	G/G _(0/+50)
0/+ .50	One way	-	-	-	-	-
+/- .50 secant	Two way	-	-	-	-	-
+/- .25 tangent (top line)	Two way	64.66/-4.387	.4456/-0.0303	138.09	0.9525	-
+/- .25 tangent (bottom line)	Two way	9.84/-54.31	.0679/-0.3746	128.30	0.8849	-

Shear Modulus Definition	G _{average} (psi)	G _{average} (MPa)
0/+ .50	133.68	0.9221
+/- .50 secant	122.53	0.8451
+/- .25 tangent (top line)	154.51	1.0657
+/- .25 tangent (bottom line)	96.81	0.6677

- shear strains did not reach a value higher of 50%.

The right bearing pad for the Type VI pad tests did not reach shear strains higher of 50%.

Consequently, there is not enough information to obtain the shear modulus using definition 1 and 2 (blank spaces in Table 17 through Table 19).

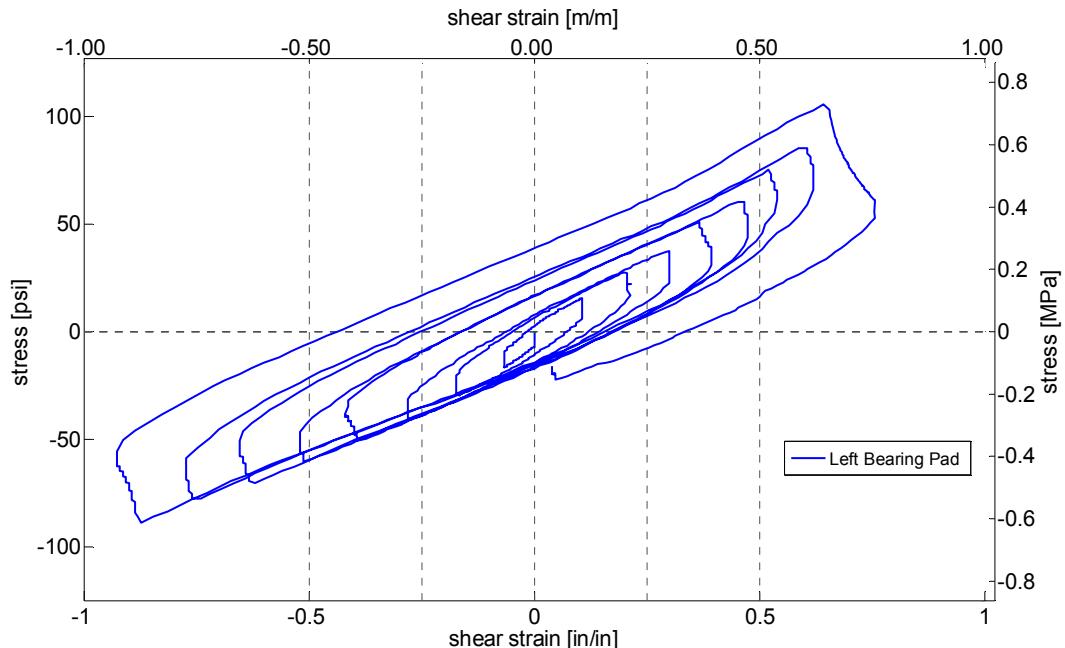


Figure 34. Stress vs. shear strain relationship for Type VI- 100 kips (444 kN)